

On the Stability of Motions of a Gyroscopic
Pendulum, by V. F. Lyshenko.
RUSSIAN, per, Iz Ak Nauk SSSR Otdel Tekh Nauk
Mekh i Mash, No 4, 1963, pp 3-6.
Navy Tr 3876/APL T1059

Sci - Phys
Sep 64

FTD - TT - 64-1175

266,289

Notes on the Dynamics of Cardan Suspension, by
D. M. Klimov, 7 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mash,
No 4, 1963, pp 7-9. 9693312
FTD-TT-64-416

Sci - Phys
Aug 64

264,828

Auto-oscillation of a Flexible Shaft About
the State of Equilibrium in Plane Bearings,
by S. P. Maksimov.

RUSSIAN, per, Izvestiya Akad Nauk SSSR, OTD,
Tekhnicheskikh Nauk Mekhanika i Mashinostroeniye,
1963, No 4, pp 10-17.

NIL RTS 2478 (On Loan or Purchase)

OTS TT-64-19983

Aug 65

288,112

Forced Oscillations of a Stream of an
Ideal Compressible Liquid in a
Homogeneous Straight Pipe, by
K. S. Kolesnikov, 14 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh
i Mash, No 4, 1963, pp 102-107. 9699024
RTP-TT-65-1119

Sci - Mech
Jan 66

294,735

Connection Between Aerodynamic Heating and
Surface Friction, by L. V. Kozlov.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk
Mekh i Mash, No 4, 1963, pp 103-111.
Navy Tr 3877/APL T1060

FTO-TT-64-377 (7698743)

Sci - Aerospace, Phys
Sep 64

266,290

About a Certain Problem of the Oscillations
of an Orthotropic Plate Placed in a
High-Temperature Field, by S. A. Ambartsumyan,
10 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i
Mash, No 4, 1963, pp 133-137. P100062666
FTD-TT-65-1931

Sci - Phys
Nov 66

312,915

Experimental Investigation of the Influence of Rigidity
of the Testing Machines on the Stability of Cylindrical
Unreinforced Shells Under Axial Compression, by
V. I. Kozlovskii, G. M. Smelyi, 9 pp.

RUSSIAN, 1962, Izvestiya Ak Nauk SSSR, OTN, Mekh i Mashino,
No 2, 1962, pp 162-166.

CIA/IDD X-5318

OTS TT-64-10413

248,855

Sci - Physics

Jan 64

FOR OFFICIAL USE ONLY

Lepik, Yu. R.
ON THE CARRYING CAPACITY OF INHOMOGENEOUS
PLATES AND SHELLS. [1963] 9p 8refs
Order from OTS, SIA, or HTC \$1.10 TT-64-14306

Trans. of A[ka]demiy N[auk] SSSR, O[tdelenie]
T[ekhnicheskoy] M[ekhaniki] (Zhurnal Mekhanika) ;
Mashinostro[enie] 1963, no. 4, p. 167-171.

DESCRIPTORS: *Disks, *Cylindrical shells, *Loading
(Mechanics), Deformation, Plasticity, Creep, Mathe-
matical analysis, Stresses.

(Mechanics, TT, v. 11, no. 9)

TT-64-14306

I. Lepik, Yu. R.

Office of Technical Services

Qualitative Analysis of One System of Differential
Equations Pertaining to Control Theory, by
N. N. Serebryakova, 24 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdeleniye Tekhnicheskikh
Nauk, Mekhanika i Mashinostroyeniye, No 5, 1963,
pp 29-41. 9695089
FTD-TT-64-417

Sci - Math & Data Proc
Nov 64

269,096

Dependence of Stress Concentrations on
The Quality of Machining Detail Surfaces,
by V. A. Pal'gov, 11 pp.
RUSSIAN, per, Iz An SSSR, OTN, Mekh i
Mash, No 5, 1963, pp 60-66. 9697189
ITD-IT-64-1080

Sci-Eng
Jun 63

282,227

Some Effects Related to the Multicomponent
Nature of Gas Mixtures, by N. A. Amfinov, 13 pp.
RUSSIAN, per. Izvestiya Ak Nauk SSSR, Mekh i
Mash, No 5, 1963, pp 117-123. 9694799
FTD-TT-64-198

Sci - Engr
Oct 64

NASA TT-F-10,037
267,677

The Mechanism of Fatigue Wear Under Elastic C
Contact, by I. V. Kragelskii and E. F.
Neopmyashchii.

RUSSIAN, per, Izvestiya Akad Nauk SSSR, OTN,
Mekhanika i Mashinostroeniye, 1963, No 5,
pp 190-195.

NLL RTS 2653 (On Loan or Purchase)

Aug 65

288,095

On the Motion of Certain Mechanical Systems With
Variable Masses, by V. F. Yakovlev.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mash, No 5,
1963, pp 198-202.
NASA TT F-8742

Ofdel Tekh Nauk

Sci-Engr
Aug 64
U.S. GOVERNMENT ONLY

265,127

Theory of the Creep of Metals, by I.I. Bugakov, A.A.
Vakulenko.

RUSSIAN, per Izvestiya Akademii Nauk SSSR Mekhanika i
Mashinostroyeniye, Vol. 6, 1963, pp 3-11

DB 42/1538

Sci -
Sep 67

339-782

Grigolyuk, E. I. and Prisekin, V. L.
DYNAMIC INTERACTION OF AN ORTHOTROPIC
CYLINDRICAL SHELL WITH AN ACOUSTIC
SHOCKWAVE. [1964] 13p 7refs
Order from OTS, SLA, or ETC \$1.60 TT-64-14806

Trans. of A[kademiya] N[auk] SSSR. O[tделение]
T[ekhnicheskikh] N[auk] izv[estiya]: Mekh[anika]
Mashinostr[oenie] 1963, no. 6, p. 25-35.

(Mechanics, TT, v. 11, no. 11)

TT-64-14806

I. Grigolyuk, E. I.
II. Prisekin, V. L.

CIA/TDD X-5340

Office of Technical Services

Calculation of Heat Fluxes in the Flow of Two
Different Supersonic Streams Around a Shoulder,
by R. K. Tagirov, 10 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 6, 1963, pp 55-61. 9694849
FTD-TT-64-364

Sci - Engr
Oct 64

267,698

The Possibility of the Simultaneous Formation of Several Fractures in Hydraulic Formation Fracturing, by Yu. V. Zheltov and R. Sh. Kasimov,
RUSSIAN, per, Izv. Ak. nauk SSSR, Otd. Tekhn. nauk, mekhan. i Mashinost., No 6, 1963,
pp 83-87.
ATN 11-4939.

Sci=
Apr 67

321,594

Measurement of Base Pressure in Free Flight, by
G. I. Mishin, 7 pp,
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 6, 1963, pp 116-118. 9695069
FTD-TT-64-373

DDCPSIC-396

Sci - Aero
Nov 64

268,351

Russian Comp. Special

DC

1,994/70

2 Apr 70

SF

Measurement of Bottom Pressure in Free Flight by
G.I. Mishin,
bimoper, Izv. AN ASSR, Mekhanika, i Mashinostroyeniye
No. 3, 1963, pp 116-118,

Special Type "B": Transl. draft plus one
incl. graphics,

source-return pages,

Lyapunov's Method of Investigating the Stability
of Motion of Rigid Bodies with Liquid-Filled
Cavities, by V. V. Rumyantsev,
RUSSIAN, per, Iz Ak Nauk, Mekh i Mashinos,
No 6, 1963. 2698871
DDC RSIC-478 → 40119-140.

Sci - Eng
Jan 66

294,441

Determination of the Natural Vibrations Frequencies of
Closed Circular Cylindrical Shells, by I. V. Gavrilov, 5 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 6, 1963,
pp 144-146.

Mekh i Mash,

CIA/FDD X-5332

Sci - Phys

Mar 64

FOREOFFICIAL USE ONLY

OTS-77-64-14725

250,936

Application of the Method of Consecutive Approximations
in the Design of Ribbed Shells, by V. M. Ryabov, 12 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 6, 1963, pp 150-154. 9695092
FTD-TT-64-418

Sci - Phys
Nov 64

269,097

Plastic Flexure in a Freely-Supported Circular
Plate Under the Action of an Axisymmetrical Load,
by Xian Zhu-Hua. 9 pp.

RUSSIAN, per, Izvestiya. Ak Nauk SSSR, Mekhanika
i Mashinostroyeniye, No 6, 1963, pp 159-163.

9700754

FTD-TT-65-1477

Sci/Math
Jun 66

303,776

Calculation of Triple-Layer Plates With Rigid
Filler, by Ye. I. Grigolyuk, P. P. Chulkov.
RUSSIAN, per, Izvestiya AN SSSR. Mekhanika i
Mashinostroyeniye, No 1, 1964, pp 76-74.

FTD S-643 HT-292-69

67

june 69

384,133

Effect of the Unsettled Combustion Regime and of
Rocket Spinning Upon the Principal Vector and the
Principal Moment of Reactive Forces, by V. S. Novoselov.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 1, 1964, pp 101-103.
NASA TT F-8693

Sci-Electr
Jul 64

U.S. GOVERNMENT ONLY

260,979

Investigation of the Interaction of a
Jet With Screens Located Near, by
O. V. Yakovlevskiy, A. N. Sekundov, 22 pp.
RUSSIAN, per, Iz AN SSSR Mekhanika,
i Mashinostroyeniye, No 1, 1964,
pp 104-114. P100146567
FTD-MT-66-370

Sci-Prop and Fuels
Jun 67

327,242

Displacement of Oil by Water in Porous Media
Containing Low-Permeability Inclusions, by

V. N. Ryzhik,

RUSSIAN, per, Izv. Ak Nauk SSSR, Mekh i
Mashinostr., No 1, 1964, pp 126-132.

ATS 10-4491

ATS-64278R

Sci-Phys

Apr 67

321,564

Experimental Investigations of the Thermo-
dynamics and Hydrodynamic Properties of
Gas-Condensate Mixtures in Flow Through
Porous Media, by A. G. Durnish'yan, et al,
RUSSIAN, per, Izv. Ak Nauk SSSR, Mekh i
Mashinstro, No 1, 1964, pp 133-136.
ATS RJ-4492

Sci-Phys
Apr 67

521,505

The Boundary Layer on a Flat Plate in Anisotropic
Magnetohydrodynamics, by V. B. Varanov,
A. G. Kuklovskiy, 6 pp.
RUSSIAN, per. Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 1, 1964, pp 141-142, 9696878
FTD-TT-65-44

Sci - Phys
May 65

280,452

Unsteady Flow Past, and Flexural Flutter of, Bodies
of Revolution in a Supersonic Stream, by P. I. Zheludev.
RUSSIAN, per, Iz VAK Nauk SSSR, Otdel Tekh Nauk Mekh
i Mash, No 1, 1964, pp 158-162.
NASA TT F-9024

Sci-Phys

Aug 64

~~NO FORN DISSEM~~

U.S. GOVERNMENT ONLY

265,130

The Equations of the Transverse Vibrations of
Liquid-Filled Shells, by B. I. Rabinovich, 11 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekhanika i Mashinostroyeniye, No 1, 1964,
pp 166-169, 9223043
NASA TT F-216
WLL 0016149 1964 (216) on loan
ETA TT-65-869
Sci - Phys
Jul 64

263,908

The Equations of the Axially Symmetric Vibrations
of a Liquid-Filled Cylindrical Shell, by V. P. Shmakov,
11 pp.

RUSSIAN, per, Iz VAK Nauk SSSR, Otdel Tekh Nauk,
Mekhanika i Mashinostroyeniye, No 1, 1964,
pp 170-173. 9223057

NASA TT F-219

NLL 6015.49 1964 (219) on loan

Sci - Phys
Jul 64

263,906

Theory of Plastic Flow at Nonisothermal
Loading, by I. A. Birger, 7 pp.
USSR, per. Iz Ak Nauk SSSR, Mekh i
Mash, No 1, 1964, pp 193-196. 9698369
FTD-TT-64-1266

Sci & Phys
Oct 65

290,124

Application for the Method of Photoelastic Coatings
To the Determination of the Stresses and Deformations
in Flexible Plates and Shells, by M. Kh. Akhmetzyanov,
8 pp.

RUSSIAN, per. Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekhanika i Mashinostroyeniye, No 1, 1964, pp 199-201.

9223044

NASA TT F-220

FTD-71-64-1088

ULL 6015.49 1964 (220) on loan

Sci - Phys

Jul 64

263,907

Optimal Combination of Propulsion Systems
by Yu. N. Ivanov.

RUSSIAN, per, Izv Ak Nauk SSSR,
Mekhan i Mashinostroyeniye, No 2, 1964,

pp 9-18.

Dept of Navy Tr 4562/APL/JHH TG 230-T-464

Sci-M/M
Apr 66

299,639

Flow Around a Flat Blunt Plate under a
Small Angle of Attack with a Hypersonic
Gas Stream, by V. I. Kholyavko, 8 pp.
RUSSIAN, per, AN SSSR. Izvestiya. Mekhanika
i Mashinostroyeniya, No 2, 1964, pp 19-23.
F100016568
FTD-HT-66-606

Sci-Physics
Feb 68

350,595

Determining the Average Speed and Concentration
of Particles of a Rapid Flux of Rarefied Plasma,
by V. B. Cherenkov, O. Yu. Sevast-yanov,
Yu. M. Lukoyanov, 9 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdeleniye
Tekhnicheskikh Nauk, Mekhanika i Mashinostroyeniye,
No 2, 1964, pp 25-29. 9695114
FTD-TT-64-947

Sci - Phys
Nov 64

269,085

Balancing of Flexible Rotors,
by M. Ya. Kushul', A. V. Shlyakhtin, 21 pp.
RUSSIAN, per. Iz Ak Nauk SSR, Mekh i Mash,
No 2, 1964, pp 61-77.
ACSI I-9305
ID 2204012066

Sci-M/M
Jun 66

302,050

Study of Local Strain During Bending of
a Hollow Shaft, by L. S. Burshteyn,

20 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Mekh

1 Mash, No 2, 1964, pp 123-129. 9699003

FTD-TT-65-1121

Sci - Phys

Jan 66

294,739

Deformation of Membrane Shells of Rotation, by
V. I. Usyulcin, 15 pp.
RUSSIAN, per. AN SSSR. Izvestiya. Mekhanika i
Mashinostroyeniye. No 2, 1964, pp 134-140.
PL00052768-1
FTD-HT-66-539

Sci-Tech Engr
Apr 68

352,259

Vibrations of an Elliptic Cylinder in a Viscous
Incompressible Fluid, by D. N. Gorelov, 5 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mashino,
No 2, 1964, pp 171-174.
CIA/FDD X-5446

Sci - Phys

Sept 64

FOR OFFICIAL USE ONLY

266,465

Experimental Investigation of the Flow of
Quicksand in a Formation, by

O. P. Vasil'ev, et al,

RUSSIAN, per, Izv. Ak Nauk SSSR, Mekh i
Mashinost., No 2, 1964, pp 179-182.

ATS 10J-4100

Sci-ear S-ci

Apr 67

321,563

Employment of Electronic Digital Computers
in Structural Mechanics, by A. P. Filin,
14 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i
Mash, No 2, 1964, pp 188-192. 9696017
FTD-PI-64-951

Sci - Elec
Apr 65

277,843

Application of Digital Computers in Structural
Mechanics, by A.P. Filin, 10pp
USSR, per, Izvestiya Akademii Nauk SSSR,
Mekhanika i Mashinostroyeniye, Moscow, No 2,
Jan-Apr 64, pp 188-192
JPRS 27244

Sci-Math & Data Proc
Jan 65

271113

Theoretical Analysis of Unsteady Heating
and Destruction of a Glass-Plastic in the
Region of the Stagnation Point, by

Ku. V. Polezhnyev, 12 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i

Mash, No 3, 1964, pp 3-8. P100139466

TTT-66-279

Sci - Phys

Jun 67

317,621

Some Variational Problems on the Acceleration
of Carrier Gas in Strong Electromagnetic Fields,
by G. M. Ben-Zelikovich, 13 pp.

RUSSIAN, per, AN SSSR. Izvestiya. Mekhanika i
Mashinostroyeniye, No 3, 1964, pp 9-15.

FI00134268-V

FTD-HT-66-761

Sci-Physics
July 68

360,718

Flow of Viscous Liquid Near Angular Points
of Contour of Solid Body, by G. I. Maykavar,
8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Tekh i
Mash, No 3, 1964, pp 16-20. P100091607
FTD-37-65-322

Sci - Mech, Industrial, Civil
& Marine Engr
Apr 67

322,051

Conditions of Imperturbability of the Single-
Rotor Gyrocompass, by G. D. Rlyumin & M. V.
Chichinadze, 16 pp.

RUSSIAN, per, AN SSSR. Izvestiya. Mekhanika i
Mashinostroyeniye, No 3, 1964, pp 71-86, 152-
154. P100372667

FTD-MT-64-536

Sci/Meth & Equip
Jan 68

343,351

On Motion of the Free Gyroscope with Calculation
of Internal Friction in Elastic Elements of its
Construction, by L. I. Kargu & I. M. Okon, 7 pp.
RUSSIAN, per, AN SSSR. Izvestiya, Mekhanika i
Mashinostroyeniye, No 3, 1964, pp 71-86, 152-
154. P100372667
FTD-IT-64-536

Sci/Heath & Equip
Jan 68

348,353

Systematic Departures of the Triaxial Gyroscopic
Platform, Caused by its Angular Oscillations, by
V. A. Zinenko, 16 pp.

RUSSIAN, per, AN SSSR, Izvestiya, Mekhanika i
Mashinostroyeniye, No 3, 1964, pp 71-86, 152-
154. P100372667

FTD-MT-64-536

Sci/Math & Equip
Jan 68

348,352

Equations for Creep Based on the Criterion of
Maximum Reduced Stress, by Yu. V. Nemirovskii.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR Otd.
Tekhnicheskikh Nauk Mekhanika i Mashinostroyeniye,
No 3, 1964, pp 117-122.
NLL KTS 3228

Sci - Phys
Sept. 67

340,388

REQUEST TR CHECK

18-3-8

BR70-12-224

On experimental research of anisotropic fiberglass
Ya. S. Sidorin

Russ per: Izvestiya. AN SSSR. Mekhanika I
Mashinstroenie, no 3, 1964, 122-126

In process as

HT-23-208-70

*Negative
23 March 70*

On the Magnitude of the Critical Force During Axial
Compression of a Cylindrical Shell, by

V. N. Kozhevnikov, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mashino, No 3, 1964, pp 137-141.

CIA/FDD X-5490

Sci - Phys

Nov 64

FOR OFFICIAL USE ONLY

269,306

Vibrations and Stability of an Elliptical
Shell, by B. I. Slepov.
RUSSIAN, per, Izv AN SSSR, Otd Tekh Nauk,
Mekh i Mash, No 3, 1964, pp 144-146.
NASA TT F-12,155

Sci-Phys
June 69

383,236

Effect of Random Distribution of Impermeable
Sections on the Average Hydraulic Conductivity
of a Formation, by V. V. Skvortsov,
RUSSIAN, per, Izv. Ak Nauk SSR, Mekh i
Mashinostr., No 3, 1964, pp 178-182.
NTS RU-4405

Sci-Tech, -
Apr 67

321,567

A Method for Computing Supersonic Flow Around Blunt
Bodies, Accompanied by a Detached Shock Wave,
by S. M. Gilinskiy, G. F. Telenin, 31 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Mek i Mash, No 4,
1964, pp 9-28. 9226927
NASA TT F-297

NLL-6015.49 1965-TT-F-297

Sci-ES & Astron
Feb 65

274934

Supersonic Flow Around Ellipsoids,
by M. I. Sivest.
RUSSIAN, por. by Ak Mark USSR, Otdel Tekh.
Nauk, Tekhn. Nauch. No 4, Jul, Aug 1964.
pp 17-22.
•NAB: TT F-200

Sci-Phys
New Cd

An Approximate Solution to the Problems of
Unsteady-State Plane-Radial Flow, by

V. N. Entov,

RUSSIAN, per, Izv. Ak Nauk SSSR, Mekh i

Mashinost., No 4, 1964, pp 35-39.

AT: RJ-4493

Sci-Phys

Apr 67

321,566

Investigation of Three-Dimensional Photoelastic
Models, by Kh. K. Adam.
RUSSIAN, per. In Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 4, 1964, pp 41-46.
Kb 711-9290

Sci. Engg
May 65

280,166

The Creep of Anisotropic Bodies, by L.M. Kachanov.
RUSSIAN, per, Izvestiya Ak Nauk SSSR, Mekhaniki
i Mashinostroyeniye, No 4, 1964, pp 63-67.

P100013056

FTD-TT-65-1360

Mechan, Indust, Civil &
Marine Engr
Sep 66

500,405

Viscous - Plastic Flow of Circular Disks and
Cases of Rotation, by G.I. Bykovtsev,
T. D. Semykina. 56 pp.
RUSSIAN, per, Izvestiya Ak Nauk. Mekhaniki i
Mashinostroyeniya, No 4, 1964, pp 68-76.

P100013066

FTL-IT-65-1360

Mechan, Indust, Civil &
Marine Engr
Sep 66

309,406

A Theory of Metal Creep with Account
Taken of Work Hardening, by I. I. Bulgakov.
RUSSIAN, per, Izv. Ak. Nauk SSSR, OTN
Mekhanika i Mashinostroenie, No 4,
1964, pp 87-89.
NLL ~~MS~~ 2920

Sci-M&I
June 66

302,267

Cyclic Loading of an Elasticoplastic Medium,
by R. A. Arutyunyan.

RUSSIAN, per, Izv. AN SSSR Mekh. i Mash,
No 6, 1964, pp89-91.

NEL 9022.09 (#118)

Sci - Mech

Oct 67

343,863

Deformation Boundary Conditions in the Theory of
Elasticity, by L. A. Rozin. 56 pp.
RUSSIAN, per. Izvestiya Ak Nauk SSSR. Mekhaniki
i Mashinostroyeniye, No 4, 1964, pp 96-101.

PI00013065

FTD-TT-65-1360

Sci/Mechan, Indust, Civil &
Marine Engineering
Sep 66

309,407

**Stability of a Circular Cylindrical Sandwich Shell
Under Nonuniform Compression, by V. V. Kabanov,
7 pp.**

**RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 4, 1964, pp 116-119.
CIA/FDD X-5511**

XSci - Phys

Jan 65

FOR OFFICIAL USE ONLY

270,487

Motion of a Pendulum With Strong Damping on
a Vibrating Base, by D. M. Klimov.
Soviet Phys. JETP, per. Iz Ak. Nauk SSSR, Otdel Tekh. Nauk,
Ninth Issue, No 4, 1964, pp 142, 143.
USSR TT T-363

Sci-Engr
Aug 63

286,820

Effect of the Inertia of Cardan Suspension
Disks on the Motion on a Gyroscopic
Integration of Linear Accelerations, by
L. N. Glazkin, 7 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i
Mash, No 4, 1964, pp 145-147. 9697771
FTD-TT-65-333

Sci - Earth Sci
Aug 65

287,554

Temperature Profiles in Bodies Traveling at High
Altitudes at Hypersonic Speed, by I. N. Murzinov.
RUSSIAN, Izvestiya Akad Nauk SSSR, Mekhanika i
Mashinostroyeniye, No 4, 1964, pp 148-150.

9700751

FTD-TT-65-1478

Sci/Aerospace
Jun 66

303,766

Three Dimensional Flow Around Blunt Bodies by
a Supersonic Stream of Perfect Gas, by Yu. N. Dyakonov,
8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mash, No 4,
1964, pp 150-153. 9226421

NASA TT F-299

Sci-Ear Sci & Astron
Feb 65

273,169

Flow of a Non-Adiabatic Supersonic Flow
of an Ideal Gas Around a Flat Plate, by
I. F. Zhakhov, 10 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i
Mash, No 4, 1964, pp 154-157. 9699029

File-TP-65-1122

Sci - Engr

Jan 65

294,732

R-6754-D

7 Mar 66

On a problem of the hydrodynamic theory of stability

By: E. V. Saenenov

From: IZV AKADEMIY NAUK SSSR MEKH I MASCHINOSTR

No 4, 1964 pp 161-165

(5 pp)

Russian - est for vds:

Type 1 camera ready and 1 carbon copy. Documents
may be cut.

An Approximation Method for Solving Jet
Problems, by O. V. Yakovlevskiy.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mash,
No 4, 1964, pp 169-172.

7 ACEN I-7828
ID 2214022265

Sci - Aero
Jul 65

On the Supporting Properties of a Thin Layer of
Gas or a Cavitation Liquid, by S. I. Sergeyev.
56 pp.

RUSSIAN, per, Izvestiya, Ak Nauk SSSR. Mekhanika
i Mashinostroyeniye, No 4, 1964, pp 172-177.

FI00013066

FTD-77-65-1350

Sci/Mechan, Indust, Civil &
Marine Engr.
Sep 66

309,403

Study of the Mobility of Connate Water in a
Stratified Porous Medium, by A. F. Bogomolova
and V. M. Glazova,
RUSSIAN, per, Izv. Ak Nauk SSSR, Mekh i
Mashinost., No 4, 1964, pp 180-184.
ATIS 03-4488

Sci-Phys
Apr 67

521,562

Combustion of Graphite in a High-Temperature
Air Flow, by N. A. Anfinov, 14 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
Nauk, Mekh i Mash, No 5, 1964, pp 3-11.

CIAZFOO X-5578

Sci - #Phys

Apr 66

FOR OFFICIAL USE ONLY

277,866

on accelerating, with Minimum of
Conducting Gas in Strong Electro-
magnetic Fields, by G. M. Bam-
zovovich.

RUSSIAN, per, Izvestiya Akad Nauk
Sov. Akad Nauk i Matem. Mekh.
Nov. 1968, pp 12-19.
*RDP91-00772R000100170060-3

Sec-Phys
July 68

Method of Calculating Three-Dimensional Super-
sonic Gas Flows Around Bodies, by Z. D. Zapryanov.
RUSSIAN, per, In Ak Nauk SSSR, OTN, Mekh i
Mashinost, No 5, 1964, pp 20-24.
Dept of Navy Tr 4407/APL No T-1552

Sci - Eng
Feb 66

295,427

Calculation of the Aerodynamic Interference
of a System of Bodies in an Ideal
Liquid, by D. N. Gorelov,
RUSSIAN, per, Izv Akad Nauk SSSR,
Mekhan i Mashinostr, No 5, 1964, pp 33-38.
NASA TT F-9882

LINE 21 To No. 1154

Sci-Aero
Apr 66

298,657

On the Dynamics of an Automatic Course System,
by L. A. Komraz. 13 pp.
RUSSIAN, per, Izvestiya Akad. Nauk SSSR, Mekhanika
i Mashinostroyeniye, No 5, 1964, pp 54-60.

9700444

FTD-TT-65-1784

Sci/Math & Data Processing
Jun 66

302,539

Propagation and Interaction of Elastic-
Plastic Loading Waves in a Finite Rod,
by G. V. Litvinov, 6 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
Nauk, Mekh i Mash, No 5, 1964, pp 108-111.
CIA/FBI X-5639

Sci - Phys
Jun 65

FOR OFFICIAL USE ONLY

281,714

Stability of a Cylindrical Shell With a
Liquid Filler in a Gas Flow, by Yu. Ya. Shveyko,
8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel
Tekhn Nauk, Mekh i Mash, No 5, 1964,

PP 112-116.

CIA/PDD X-5050

Sci - Phys

JUL 65

FOR OFFICIAL USE ONLY

Predicting Supersonic Flow Configurations
around Solid Bodies by Means of Plane
Shock Waves, by G. I. Maykapat.
RUSSIAN, per, Inventiya Akad Nauk SSSR,
OTN, Vkhimtekhnika i Mashinostroyeniya,
NO 3, 1964, pp 142-144.
*F-TD-121-05-024

Sci-111118
July 6:

Supersonic Flow Over Bodies of Varying Shape With
A Detached Shock Wave, by S. M. Gilinskiy, G. F.
Telenin.

RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mash,
No 5, 1964, pp 148-156.

Dept of Navy Tr 4459/APL/JHU T-1593

296,447

Sci-Phys
Feb 66

A Geometrical Interpretation of the Oscillations
of an Elastically Suspended Rigid Body, by V. G.
Aver'yanova and F. M. Dimentberg, 19 pp
RUSSIAN, per, Izvestiya Akademii Nauk SSSR,
Mekhanika i Mashinostroyeniye, No 6, Nov-Dec 64,
pp 10-19.
JPRS 29551

USSR
Sci-Phys.
Apr 65

277,732

Viscous Hypersonic Flow After a Parabolic
Axially Symmetric Shock, by V. S. Nikolayev.

8 pp.

RUSSIAN, per, IZ AN SSSR Mekhanika i
Mashinostroyeniye, No 6, 1964,

pp 48-522 P100171667

FTD MT 65-325

AFCL G-T-R-65-10

327,320

Sci-Phy
Jun 67

Local Stability of Sandwich Shells of
Revolution, by E. I. Grigolyuk,
P. P. Galkov, 12 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
Nauk, Mekh i Mash, No 6, 1964, pp 78-88.
CIA/PDI X-5644

Nash - TT-F-412

Sci - Phys
Jun 65

NLL 6015.49F

281,710

Calculation of the Effect of an Arbitrary
Dynamic Load on Circular and Annular Plates,
by Ye. M. Gershtunov, 9 pp.
RUSSIAN, per, An SSSR. Izvestiya. Mekhanika
i Mashinostroyeniye, No 6, 1964, pp 89-95.
P100240668-7
FTD-HT-23-794-67

Sci/Phys
Oct 68

363,372

On the Stressed State Around Curvilinear
Holes in Shells, by G. N. Savin,
A. N. Guz', 11 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
Nauk, Mekh i Mash, No 6, 1964, pp 96-105.
CIA/PLD X-5691

NLL 6015.49F (423)

RUSSIAN TT F-423 9231811

Sci - Phys

Aug 65

FOR OFFICIAL USE ONLY

287,537

On the Vibrations of an Infinite Elastic Cylindrical
Shell Around Which a Compressible Gas Flows, by
N. P. Kudryavtsev, 5 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 6, 1964, pp 113-116.
CIA/PDD X-5602

Sci - Phys
May 65
FOR OFFICIAL USE ONLY

278,400

On the Stability of Sandwich Shells With
Elastic-Viscous Filler, by Kh. M. Mushtari,
A. G. Terogulov, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel
Tekhn Nauk, Mekh i Mash, No 6, 1964,
pp 119-124.

CIA/DDO X-5635

Sci - Phys

Jul 65

FOR OFFICIAL USE ONLY

282,669

On the Form of a Bow Shock Wave in Hypersonic Flow
Over Blunt Bodies, by V. V. Lunev.
RUSSIAN, per, Izvestiya Ak Nauk SSSR, Mekhanika
i Mashinostroyeniye, No 6, 1964, pp 138-140.
•FTD-HT-66-280

Sci/Physics
Sep 66

Viscous-Plastic Flow of Circular
Plates and Shells of Revolution,
by G. I. Dykhnov and T. D.
Semyakina.

RUSSIAN, per, Izvestiya Akad
Nauk SSSR, OTD Mekhaniki
Mashinostroyeniya, No 7, 1964,
pp 65-76.

*FTD-TT-65-1360

Oct-1964

July 65

Boundary Deformation Conditions in
the Theory of Elasticity, by L. A.

Lozin.

RUSKIN, for, Izvestiya Akad Nauk
SSSR, OTN, Mekhanika i Masinostro-
eni, No 7, 1964, pp 96-101.

~~FTO-77-65-1360~~

FTO-77-65-1360

Sci-67

July 68

Carrying Capacity of a Thin Gas
Layer on a Cavitating Fluid, by
G. I. Berghov.

Abstract, per. Investigative Akad Nauk
SSSR, OTD. Mekhanika i Mashinostro-
enie, No 7, 1964, pp 172-177.

~~Ref. No. 12-20~~

FF70-77-65-1340

Sci-Encl

July 65

An Approximation Method for Solving Jet
Problems, by O. V. Yakovlevskiy, 9 pp.

FOR OFFICIAL USE ONLY

OTN

RUSSIAN, per, Iz Ak Nauk, Mekh i Mashinos,
No 9, 1964. 9698131

ESTC 381-765-316

I-7328

ID 2204022265

Sci - Eng

Oct 65

288,664

Combustion of Graphite in an Air Flow at
High Temperatures, by N. A. Anfimov.
RUSSIAN, per, Izv. Akad. Nauk, SSSR,
Otd. Tekhn. Nauk, Mekhanika i Mashino-
stroenie, Sep/Oct 1964, pp 3-11.
UKAEA-Windscale Trans. 192
(On loan)

Sci/MGM
Nov 65

292,105

RUSSIAN METALLURGY AND MINING, 1963, NO. 1.
Jan/Feb 63, 116p
Order from SIC \$15.00, \$68.00/year

Trans. (some articles abridged) of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya Metallurgiya i Gornoe Delo, 1963, no. 1, p. 14-17, 41-58, 69-75, 87-90, 97-99, 105-120, 129-175.
Abstracts are included of the articles not translated in full.

DESCRIPTORS: *Metallurgy, Metallography, *Mining engineering, *Abstracts, Mechanical working, Slags, Chromium compounds, Titanium compounds, Niobium compounds, Calcium compounds, Carbides, Cyanamides, Copper compounds, Sulfides, Powder metallurgy, Electrical conductance, Ultrasonic radiation, Iron, Steel, Carbon alloys, Graphite, Stainless steel, Rare earth elements, Phosphorus, Separation, Zinc, Boron, (Metallurgy, TT, v. 10, no. 11) (over)

63-22461-1

1. Title: Cementite
2. Title: Rheotropic regression
1. Scientific Information Consultants Ltd. (Gt. Brit.)

Office of Technical Services

The Influence of Slag and Metal Compositions
on the Process of Steel Desulphurization by
a Lime-alumina Slag, by M. L. Fazonov and
A. G. Shalimov.

RUSSIAN, per, Izvestiya Akad Nauk SSSR, OTN,
Metallurgiya i Gornoye Delo, 1963, No 1, pp 33-40.
NLI RRS 2838 (On Loan or Purchase)

Aug 65

288,835

Thermodynamics of ~~combustion~~ ~~processes~~, by
V. I. Alekseyev, L. A. Shvartsman.

RUSSIAN, per, Iz Ak Nauk Otdel Tekh Nauk,
Metallurgiya Gornoe Delo, No 1, 1963,
pp 91-96.

CRL/T.1291

BISI 3321

Sci-M/M

Oct 63

241, 400